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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

(PCT Artcle 36 and Rule 70)					
Applicant's or agent's file reference PCT-2003-2	FOR FURTHER ACTION	SeeNotificati Examination	onofTransmittalofInternationa Report (Form PCT/IPEA/416)	lPreliminary	
International application No. PCT/KR2003/001302	International filing date(day/n 03 JULY 2003 (03.07.2		Priority date (day/month/ye 11 JULY 2002 (11.07.200)		
International Patent Classification (IPC					
Applicant SAMHWA STEEL CO., LTD			·		
This international preliminary examination report has been prepared by this International Preliminary Examining Authority					
and is transmitted to the applica		cluding this cover	sheet.		
2. This REPORT consists of a total of3 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a tot	al ofsheets.				
3. This report contains indications relating to the following items: I X Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application					
VII Certain defects in the international application VIII Certain observations on the international application					
Date of submission of the demand		Date of completion	on of this report		
30 OCTOBER 200	03 (30.10.2003)	28 OCT	OBER 2004 (28.10.2004)		
Name and mailing address of the IF	PEA/KR	Authorized office	er	AIE PA	
Korean Intellectual Pro 920 Dunsan-dong, Seo Republic of Korea	nerty Office	KIM, DON			
Facsimile No. 82-42-472-7140		Telephone No.	04-44-401-0144		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No. PCT/KR2003/001302

I.	I. Basis of the report				
1.	With regard to the elements of the international application:*				
	X the international application as originally filed				
		the description:			
		pagespages	, as originally filed , filed with the demand		
		pages, filed with the letter of			
		the claims:			
	ш	pages, as amended (together with an	, as originally filed		
		pages, as amended (together with an	, filed with the demand		
		pages, filed with the letter of			
		the drawings:			
		pagespages	, as originally filed , filed with the demand		
		r o	,		
		the sequence listing part of the description:			
ĺ		pagespages	, as originally filed , filed with the demand		
		pages, filed with the letter of			
2.	the i	the regard to the language, all the elements marked above were available or furnished to this Authority international application was filed, unless otherwise indicated under this item. see elements were available or furnished to this Authority in the following language Engl the language of a translation furnished for the purposes of international search (under Rule 23 the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examor 55.3).	<u>ish</u> which is 3.1(b)).		
3	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained inthe international application in written form.				
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority in written form.			
		furnished subsequently to this Authority in computer readable form			
]		The statement that the subsequently furnished written sequence listing does not go b	eyond the disc losure in the		
	international applicationas as filed has been furinshed. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.				
4.		The amendments have resulted in the cancellation of:			
		the description, pages			
		the claims, Nos.			
		the drawings, sheet			
5.		This report has been established as if (some of) the amendments had not been made, sinc go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	e they have been considered to		
*	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).				
	** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.				

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No.

PCT/KR2003/001302

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-3	YES
		Claims	None	МО
	Inventive step (IS)	Claims	1-3	YES
		Claims	None	NO
	Industrial applicability (IA)	Claims	1-3	YES
		Claims	None	NO
j				

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: JP 2000-336460 A (NIPPON STEEL CO.)

The present invention relates to a quenched and tempered steel wire with superior cold forging characteristics, which has tensile strength in a range of 700-1300 MPa and spheroidization of deposited carbide not less than 30%.

D1 relates to a hot-rolled steel wire with excellent cold workability which is being subjected to spheroidizing annealing, and which has tensile strength in the range of 470-720 MPa and area ratio of deposited granular carbide in the range of 3-15%.

The present invention is different from the cited invention in that it relates to a steel wire with higher tensile strength; that the microstructure of the present invention consists of tempered martensite, whereas that of the cited invention consists of ferrite and pearlite; and that the present invention does not need an additional heat treatment process, whereas the cited invention needs annealing heat treatment before cold working.

Therefore, the present invention is considered to be novel, to involve an inventive step, and to be industrially applicable.